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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/743,003	06/16/2004	Peter B. Kenington	46309-251562	3115
	7590 12/28/200 N AND ASSOCIATES	. EXAMINER		
1500 JOHN F. KENNEDY BLVD., SUTIE 405			SHINGLETON, MICHAEL B	
PHILADELPH	IA, PA 19102		ART UNIT	PAPER NUMBER
			2817	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 D.	AYS	12/28/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	09/743,083	HALLMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael B. Shingleton	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI  (6(a). In no event, however, may a reply be  ill apply and will expire SIX (6) MONTHS for  cause the application to become ABANDO	ON.  timely filed  ,  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is <b>FINAL</b> . 2b) This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	,					
8)⊠ Claim(s) <u>1-24</u> are subject to restriction and/or e	election requirement.					
Application Papers	,					
9) ☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Off	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:	. have been received					
<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	•					
* See the attached detailed Office action for a list of		ived.				
	:	ma a M				
	4	Thur 3				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inform 6) Other:	al Patent Application				

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## **DETAILED ACTION**

## Election/Restrictions

This application contains claims directed to more than one species of the generic invention.

These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species I directed toward Figure 14, Species II directed toward Figure 15, Species III directed toward Figure 16, Species IV directed toward Figure 17, Species V directed toward Figure 18, Species VI directed toward Figure 20 and Species VIII directed toward Figure 21, Species VIV directed toward Figure.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Species I claims 1-4, 9, 12, 13, 14, 15, 16, 21-24.

Species II claims 1-3, 5,12, 13, 14, 15, 16, 21-24.

Species III claims 1-3, 8, 11, 12, 13, 14, 15, 16, 21-24.

Species IV claims 1-3, 6, 12, 13, 14, 15, 16, 21-24.

Species V claims 1-3, 12, 13, 14, 15, 16, 21-24.

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Species VI claims 1-3, 12, 13, 14, 15, 16, 18, 19, 21-24.

Species VII claims 1-3, 10. 12, 13, 14, 15, 16, 17, 21-24.

Species VIII claims 1-3, 7, 12, 13, 14, 15, 16, 20, 21-24.

Species VIV claims 1-3.

The following claim(s) are generic: Claims 1 is considered to be generic.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The various species includes different means for use with the different pilot signals that are mutually exclusive form each other.

This new requirement supercedes the prious requirement and addes the species to Figure 13 which was thought to first be generic but it is not for it is directed toward the single tone embodiment and has a "800" section that the other species.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael B. Shingleton whose telephone number is (571) 272-1770.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal, can be reached on (571)272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306 and after July 15, 2005 the fax number will be 571-273-8300. Note that old fax number (703-872-9306) will be service until September 15, 2005.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MBS Dec 7, 2006

Michael B Shingleton Primary Examiner Group Art Unit 2817